Amendments to the Claims

1. (Currently Amended) A linear motor, comprising:

a magnet;

a coil plurality of coils; and

a jacket having a comb-shaped member that extends along a driving direction, wherein a cooling medium flows through an inside space enclosed by said jacket, wherein said comb-shaped member includes base portions provided on inside faces of said jacket and pillar-like portions for connecting said base portions, and wherein the at least one of said plurality of coils coil is supported by said base portions in a floating manner and is fixed, with respect to the driving direction, by being sandwiched by the pillar-like portions.

wherein said a plurality of coils are arrayed along the driving direction

partially overlapping each other, wherein at least one of said coils has a bent end portion to avoid

mutual interference of partially overlapped portions of said coils, and wherein said coils are

disposed with their central portions placed substantially at the same level, and

wherein said jacket has a central portion and a recessed portion on the outside of the central portion, wherein the bent end portions of said coils are disposed at the recessed portion, and wherein the recessed portion reinforces the central portion.

Claims 2-4 (canceled).

5.	(Previously Amended) A linear m	notor according to Claim 1, wherein
said jacket serves as a	guide for an element to be driven by	said linear motor.

- 6. (Previously Amended) A stage system, comprising: a linear motor as recited in Claim 1; and a stage to be driven by said linear motor.
- 7. (Previously Amended) An exposure apparatus, comprising:
 a stage system as recited in Claim 6; and
 an optical system for illuminating a substrate to be conveyed by said stage system.
- 8. (Previously Amended) A device manufacturing method, comprising the steps of:

 applying a photosensitive material to a substrate;

 exposing the substrate by use of an exposure apparatus as recited in Claim 7;

 and

 developing the exposed substrate.
 - 9. (Canceled)

10. (Currently Amended) A linear motor according to Claim 9, comprising:

a magnet;

a coil; and

a jacket having a comb-shaped member that extends along a driving direction, wherein a cooling medium flows through an inside space enclosed by said jacket, wherein said comb-shaped member includes base portions provided on inside faces of said jacket and pillar-like portions for connecting said base portions, and wherein said coil is supported by said base portions in a floating manner and is fixed, with respect to the driving direction, by being sandwiched by the pillar-like portions,

wherein said jacket has a reinforcement portion extending parallel to the driving direction, and

wherein said reinforcement portion is formed on an outside face of said jacket.

- 11. (Currently Amended) A linear motor according to Claim 9 10, wherein said reinforcement portion is formed at a position not interfering with relative motion of said magnet and said coil.
- 12. (Currently Amended) A linear motor according to Claim $9 \underline{10}$, wherein said reinforcement portion is made of one of aluminum, ceramics and resin.

- 13. (Currently Amended) A linear motor according to Claim 9 10, wherein said reinforcement portion is made integral with said jacket, and wherein said reinforcement portion is defined by a portion having a protruded shape with respect to a portion of said jacket where said magnet and said coil are opposed to each other.
- 14. (Currently Amended) A linear motor according to Claim 13, wherein said jacket and said reinforcement portion, being integral with each other, are made of one of ceramics and resin.
- 15. (Previously Amended) A linear motor according to Claim 13, wherein the protruded shape portion of said jacket is spaced from said coil.
 - 16. (Currently Amended) A linear motor according to Claim 9 comprising: a magnet;

a coil; and

a jacket having a comb-shaped member that extends along a driving direction, wherein a cooling medium flows through an inside space enclosed by said jacket, wherein said comb-shaped member includes base portions provided on inside faces of said jacket and pillar-like portions for connecting said base portions, and wherein said coil is supported by said base portions in a floating manner and is fixed, with respect to the driving direction, by being sandwiched by the pillar-like portions,

wherein said jacket has a reinforcement portion extending parallel to the driving direction, and

wherein at least one of an upper half and a lower half of a section of said jacket taken along a plane perpendicular to the driving direction has a recessed portion.

Claims 17-19 (canceled).

20. (Currently Amended) A linear motor, comprising:

a magnet;

a plurality of coils; and

a coil holding member having recessed portions and pillar portions, in a combshape, disposed along a first direction, wherein each coil is supported, with respect to a second direction perpendicular to the first direction, by the recessed portions and it is fixed, with respect to the first direction, by being sandwiched by the pillar portions, the pillar portions being disposed along an outside periphery of the said coils.

- 21. (Previously Amended) A linear motor according to Claim 20, wherein each coil has an inside void in which a portion of another coil is placed.
- 22. (Previously Amended) A linear motor according to Claim 20, wherein each coil has an inside void in which plural pillar portions of said coil holding member are disposed along the first direction.

- 23. (Previously Amended) A linear motor according to Claim 20, wherein said coil holding member surrounds said coil, and wherein a temperature controlling medium is supplied into said coil holding member.
 - 24. (Previously Amended) A stage system, comprising: a linear motor as recited in Claim 20; and a stage to be driven by said linear motor.
- 25. (Previously Amended) An exposure apparatus, comprising:
 a stage system as recited in Claim 24; and
 an optical system for illuminating a substrate to be conveyed by said stage system.
- 26. (Previously Amended) A device manufacturing method, comprising the steps of:

 applying a photosensitive material to a substrate;

 exposing the substrate by use of an exposure apparatus as recited in Claim 25;

 and

 developing the exposed substrate.
- 27. (New) A linear motor according to Claim 20, wherein said coil holding member serves as a guide for an element to be driven by said linear motor.

- 28. (New) A linear motor according to Claim 20, wherein said coil holding member has a reinforcement portion extending in parallel to the first direction.
- 29. (New) A linear motor according to Claim 28, wherein said reinforcement portion is formed on an outside face of said coil holding member.